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37 C.F.R. 1.8

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PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Hagan P. Bayley, et al.

Group Art Unit: 1641

Serial No.: 09/781,697

Examiner: M. Tran

Filed: February 12, 2001

Atty. Dkt. No.: 12740.0249.NPUS01

For: BIOSENSOR COMPOSITIONS AND
METHODS OF USE**RECEIVED**

AUG 19 2004

INFORMATION DISCLOSURE STATEMENT

OFFICE OF PETITIONS

Commissioner for Patents
P.O. Box 1450
Alexandria VA, 22313-1450

Sir:

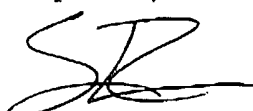
In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents are not included because this request is being transmitted by fax. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) will be provided by mail at a later date.

In accordance with 37 C.F.R. §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The Commissioner is hereby authorized to deduct the fee set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00 from Deposit Account No. 01-2508/12740.0249.NPUS01. The Commissioner is authorized to deduct any additional fees required, or credit any overpayment to Deposit Account No. 01-2508/12740.0249.NPUS01.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,



Raymond Reese

Reg. No. 47,891

Patent Agent for Assignee

THE TEXAS A&M UNIVERSITY SYSTEM

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(713) 787-1400

Date: August 19, 2004

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|---|---|--------------------------------|
| Form PTO-1449 (modified) | Atty. Docket No. 12740.0249.NPUS01 | Serial No. 09/781,697 |
| List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | Applicant Hagan P. Bayley, et al. | |
| | Filing Date: February 12, 2001 | Group: 1641 |
| U.S. Patent Documents <i>See Page 1</i> | Foreign Patent Documents <i>See Page 1</i> | Other Art <i>See Page 1</i> |

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U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Name | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|----------|--------------------|-------|-----------|---------------------|
| | A1 | 5,234,566 | 08/10/93 | Osman et al. | 204 | 403 | 08/17/89 |
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Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Country | Class | Sub Class | Translation Yes/No |
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| | B1 | W0 99 05167 A | 02/04/99 | WIPO | | | |
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| | B4 | | | | | | |
| | B5 | | | | | | |

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|--|
| | C1 | Thomas Ferenci and King-Sang Lee; Department of Microbiology, University of Sydney; "Channel Architecture in Maltooporin: Dominance Studies lamb Mutations Influencing Maltodextrin Binding Provide Evidence for Independent Selectivity Filters in Each Subunit"; June 13, 1988; 7 pages. |
| | C2 | Charles A. Roessner and Garret M. Ihler; Department of Medical Biochemistry and Genetics, Texas A&M College of Medicine; "Formation of Transmembrane Channels in Liposomes during injection of DNA"; June 3, 1985; ppgs. 386-390. |

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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| Form PTO-1449 (modified) | Atty. Docket No. 12740.0249.NPUS01 | Serial No. 09/781,697 |
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| | Filing Date: February 12, 2001 | Group: 1641 |
| U.S. Patent Documents <i>See Page 1</i> | Foreign Patent Documents <i>See Page 1</i> | Other Art <i>See Page 1</i> |

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

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| | C3 | Orit Braha, Barbara Walker, Stephen Cheley, John Kasianowicz, Langzhou Song, J. Eric Gouaux and Hagan Bayley; "Designed protein pores as components for biosensors"; April 25, 1997; ppgs. 497-505. |
| | C4 | Cornell E.A.: "The gramicidin-based biosensor: a functional nano-machine" NOVARTIS FOUNDATION SYMPOSIUM, vol. 225, 1999, pages 231-254, XP001052820 Chichester. |
| | C5 | Bayley: "Designed membrane channels and pores" CURRENT OPINION IN BIOTECHNOLOGY, vol. 10, 1999, pages 94-103, XP001058234. |
| | C6 | Boehmer, Volker: "Calixarenes macrocycles with (almost) unlimited possibilities" ANGEW, CHEM., INT. ED. ENGL. (1995), 34(7), 713-45, XP002188229 |
| | C7 | Movileanu L. Et al.; "Detecting protein analytes that modulate transmembrane movement of a polymer chain within a single protein pore." NATURE BIOTECHNOLOGY, (2000 OCT) 18 (10) 1091-5.; XP002188230 |
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| | C9 | Howorka: "A protein pore with a single polymer chain tethered within the lumen" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 122, no. 11, 22 March 2000 (2000-03-22), pages 2411-2416, XP002188232 DC US |
| | C10 | Search Report for application PCT/US01/04482, European Patent Office, Feb. 2, 2002, PCT |

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